Date: 28-02-2019

TABLE 1.2

SL No	Test conducted	Test Results	Tests Conforms to IS 2386(Part I to IV)– 1963 (Reaffirmed on 2002) & Requirements as per IS:383-1970 & M.o.R.T.H Specification, V Revision -2013.
1.	Water absorption, %	**0.38 %**	Not more than 2.0 %
2.	Liquid Limit, %	**19.70**	Not more than 25.0 %
3.	Plasticity Index, %	**NP**	Not more than 6.0 %
4.	Moisture Content, %	**6.31**	----------
5.	Aggregate Impact Value, %	**24.73**	Not more than 40.00 %

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NC/QC/YPD-W-1/2018-19/JV-C3 Date: 02-03-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Jayamuni Layout and Venktala Surrounding areas in ward No.01 at Yelahanka Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ramesh. Y. B, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : RAMCO
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**148 min**	Shall not be less than 30 min
2	Final setting time	**265 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.32 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.75 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**28.89 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/YPD-W-1/2018-19/JV-PCC2 **Date: 02-03-2019**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to roads and drains at Jayamuni Layout and Venktala Surrounding areas in ward No.01 at Yelahanka Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ramesh. Y. B, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	98.50	0 -20	30- 70
10mm	45.80	0 -5	10- 35
4.75mm	2.05	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.45	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	86.35	60-95	75-100	85-100	
01.18	68.25	30-70	55-90	75-100	
600.mic	43.90	15-34	35-59	60-79	
300.mic	26.70	5-20	8-30	12-40	
150.mic	6.45	0-10	0-10	0-10	

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NC/QC/YPD-W-1/2018-19/JV-C4 **Date: 05-03-2019**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Jayamuni Layout and Venktala Surrounding areas in ward No.01 at Yelahanka Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ramesh. Y. B, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : RAMCO
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**148 min**	Shall not be less than 30 min
2	Final setting time	**260 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.50%**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.09 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**29.35 N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/YPD-W-1/2018-19/JV-PCC3 **Date: 05-03-2019**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to roads and drains at Jayamuni Layout and Venktala Surrounding areas in ward No.01 at Yelahanka Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ramesh. Y. B, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	97.45	0 -20	30- 70
10mm	48.90	0 -5	10- 35
4.75mm	3.55	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	100.00	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	98.50	60-95	75-100	85-100	
01.18	65.35	30-70	55-90	75-100	
600.mic	46.80	15-34	35-59	60-79	
300.mic	18.25	5-20	8-30	12-40	
150.mic	8.45	0-10	0-10	0-10	

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NC/QC/YPD-W-1/2018-19/JV-C5 **Date: 06-03-2019**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements to roads and drains at Jayamuni Layout and Venktala Surrounding areas in ward No.01 at Yelahanka Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ramesh. Y. B, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand : RAMCO
Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**153min**	Shall not be less than 30 min.
2	Final setting time	**260 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.18 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.98 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**29.55N/Sq mm**	Shall not be less than 27 N/Sqmm

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NC/QC/YPD-W-1/2018-19/JV-PCC4 **Date: 06-03-2019**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Improvements to roads and drains at Jayamuni Layout and Venktala Surrounding areas in ward No.01 at Yelahanka Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. Ramesh. Y. B, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	98.50	0 -20	30- 70
10mm	45.30	0 -5	10- 35
4.75mm	3.75	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	96.80	90-100	90-100	90-100	The Sample Conforms to Grading Zone-II
02.36	87.40	60-95	75-100	85-100	
01.18	64.15	30-70	55-90	75-100	
600.mic	4790	15-34	35-59	60-79	
300.mic	24.60	5-20	8-30	12-40	
150.mic	5.40	0-10	0-10	0-10	

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NC/QC/YPD-W-1/2018-19/JV-CB5 **Date: 13-03-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains at Jayamuni Layout and Venktala Surrounding areas in ward No.01 at Yelahanka Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ramesh. Y. B, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	06-03-19	13-03-19	07	22500	365	16.22	**16.67**
	002	"	"	"	"	375	16.67	
	003	"	"	"	"	385	17.11	

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NC/QC/YPD-W-1/2018-19/JV-CB6 **Date: 13-03-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains at Jayamuni Layout and Venktala Surrounding areas in ward No.01 at Yelahanka Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ramesh. Y. B, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	06-03-19	13-03-19	07	22500	385	17.11	**16.59**
	002	"	"	"	"	360	16.00	
	003	"	"	"	"	375	16.67	

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NC/QC/YPD-W-1/2018-19/JV-CB7 **Date: 14-03-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains at Jayamuni Layout and Venktala Surrounding areas in ward No.01 at Yelahanka Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. Ramesh. Y. B, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	07-03-19	14-03-19	07	22500	390	17.33	**17.41**
	002	"	"	"	"	385	17.11	
	003	"	"	"	"	400	17.78	

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NC/QC/YPD-W-1/2018-19/JV-CB8 **Date: 14-03-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains at Jayamuni Layout and Venktala Surrounding areas in ward No.01 at Yelahanka Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. Ramesh. Y. B, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	07-03-19	14-03-19	07	22500	380	16.89	**16.67**
	002	''	"	''	"	375	16.67	
	003	''	"	''	"	370	16.44	

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NC/QC/YPD-W-1/2018-19/JV-CB9 **Date: 15-03-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains at Jayamuni Layout and Venktala Surrounding areas in ward No.01 at Yelahanka Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. Ramesh. Y. B, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	08-03-19	15-03-19	07	22500	390	17.33	**17.33**
	002	"	"	"	"	395	17.56	
	003	"	"	"	"	385	17.11	

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NC/QC/YPD-W-1/2018-19/JV-CB10 **Date: 15-03-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains at Jayamuni Layout and Venktala Surrounding areas in ward No.01 at Yelahanka Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: Sri. Ramesh. Y. B, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	08-03-19	15-03-19	07	22500	370	16.44	**16.96**
	002	"	"	"	"	390	17.33	
	003	"	"	"	"	385	17.11	

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NC/QC/YPD-W-1/2018-19/JV-CB11 **Date: 15-03-2019**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Improvements to roads and drains at Jayamuni Layout and Venktala Surrounding areas in ward No.01 at Yelahanka Sub Division.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: Sri. Ramesh. Y. B, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	08-03-19	15-03-19	07	22500	375	16.67	**16.81**
	002	"	"	"	"	390	17.33	
	003	"	"	"	"	370	16.44	

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